PTO/SB/08A (08-03)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPART MENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Complete if Known					
Application Number	10/672,22/				
Filing Date	9/26/2003				
First Named Inventor	Frank E. Towsley				
Art Unit	1729				
Examiner Name	Greene				
Attorney Docket Number	MSH-00262				

Examiner Initials*	Cite No.1	Cite No.1	Document Number  Number-Kind Code <sup>2 (# troops)</sup>	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
2		<sup>US-</sup> 4515758	1985	Domesle et al	Fig 2	
		<sup>US-</sup> 5709722	1998	Nagai et al	Cal 2,L-30-67	
		<sup>US-</sup> 6572682	2003	Peter et al	Ali	
		<sup>US-</sup> 4053371	1977	Towsley	All	
		<sup>US-</sup> 4121992	1977	Towsley	All	
		<sup>US-</sup> 4965101	1990	Frei et al	Fig 3	
		US- 4588707	1986	Domesle et al	Abstract	
		US- 5582002	1996	Pattas	Background	
		<sup>US-</sup> 5067319	1991	Moser	Background	
		<sup>US-</sup> 4929581	1990	Steinwandel et al	Background	
		<sup>US-</sup> 4759918	1988	Homeier et al	Background	
		<sup>US-</sup> 4477417	1984	Domesie et al	Background	
		<sup>US-</sup> 5682740	1997	Kawamura	Figs	
22	-	US- 5098455	1992	Doty et al	Figs	
		U\$-	1			
		US				
		US-				
		US-	1			
		US-			1	

	FOREIGN PATENT DOCUMENTS									
Examiner Cite Initials* No.	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages						
		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (If known)	MM-DD-YYYY		Or Relevant Figures Appear					
				· <del></del>						

Examiner Signature	2	m.	S.	Date Considered	7/22/05
ACCUPATION OF THE PARTY OF THE					

"EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. "Applicant's unique citation designation number (optional). "See Kinds Codes of USPTO Patent Documents at <a href="https://www.uspto.gov">www.uspto.gov</a> or MPEP 901.04. "Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). "For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. "Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. "Applicant is to place a check mark here if English language

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

PTO/SB/088 (08-03) Approved for use through 07/31/2006, OMB 0651-0031

Und	er the Paper	work Red	juction A	ct of 1995, no persons a	are required to respond to a collection	nt and Trademark Office; U.S. DEPARTMENT OF CO on of Information unless it contains a valid OMB contro	JMMERC ⊶I mimb
Substitut	te for form 14	449/PTO				Compl te if Kn wn	Я поль
					Application Number	10/672,221	
				SCLOSURE		9/26/2003	
SIA	TEME	NI b	JY A	PPLICANT		Frank E. Towsley	
İ	(Use as /	many she		necessary)	Art Unit	1724	
				######################################	Examiner Name	Greene	
Sheet	2		of	ے	Attorney Docket Number	MSH-00262	
<b></b>			<del></del> -	NON PAT	ENT LITERATURE DOC	CUMENTS	
Examine Initials*				ame of the author (ir book, magazine, jou number(s),	in CAPITAL LETTERS), title o umal, serial, symposium, cata ), publisher, city and/or count	of the article (when appropriate), title of talog, etc.), date, page(s), volume-issue itry where published.	T <sup>2</sup>
Ju	*	Hecl 2nd	k & F	Farrauto;Cataly	ytic Air Pollution Contr &9; 2002; WILEY	trol-Commercial Technology;	
		ASH A D€	BY,E` esign	VANS,FLECK, Guide; Chapte	,GIBSON,HUTCHINSO ers 1 & 2 2000; SAE	ON & WADLEY; Metal Foams:	
		US D Prog	)ept o jram;(	of Defense; En Cost and Perfo	vironmental Security T rmance Report CP-990	Technology Certification 06;Reduction of Diesel Engine	
In	1	ı				rating Soot Filter; May 2003	
	1 .	4				· 1	4

Examiner				
	221		Date	
Signature			Considered	7/22/65
EXAMINER: Initial if reference	considered up at a	tion is in conferment in August an	Considered	_// 2 4/0/

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The Information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the Individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing the burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO:

MODIFIED PTO/SB/08 (08-00)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no presons are required to respond to a collection of information unless it contains a valid OMB control number.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT Date Submitted: February 28, 2005 (use as many sheets as necessary)

Sheet

Substitute for form 1449B/PTO

of

Complete if Known						
Application Number	10/672,221					
Filing Date	09/26/2003					
First Named Inventor	Paul D. Terpstra					
Group Art Unit	3726- 1729					
Examiner Name	Greene	·				
Attorney Docket Number	075698-0106					

U.S. PATENT DOCUMENTS						
Examiner Cite No.1	U.S. Patent (	Document	I Name of Detactor on Applicant of	Date of Publication of	Pages, Columns, Lines, Where Relevant	
	No.1	Number	Kind Code <sup>2</sup> (if known)	Name of Patentee or Applicant of Cited Document	Cited Document MM-DD-YYYY	Passages or Relevant Figures Appear
(Jan)		6, 409, 006		Takahashi et al.	06-25-2002	
12/2		6, 203, 649		Kremsmair et al.	03-20-2001	·- · · · · · · · · - · - · · - ·
12m	=-	5, 404, 997	<del>-1</del>	Schreier et al.	04-11-1995	
7 1						
·						
		·				
		., .,				
				·		
			1			
						· ·

	FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No.1	Fo Office <sup>3</sup>	reign Patent Doo Number <sup>4</sup>	cument Kind Code <sup>5</sup> (if known)	Name of Patentee or Applicant of Cited Documents	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>	
an	ŀ	EP	0 878 636 A		Borg Warner Automotive	11-18-1998			
95		EP	0 180 389 A		Repco Res Pty Ltd	05-07-1986		-	

Examiner M. Signature M.	Date Considered	7/22/05

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Unique citation designation number. 2See attached Kinds of U.S. Patent Documents, 3Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>9</sup>Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.